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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/978,379	10/15/2001	Stephen C. Ennis	5500-71600	4194	
75	03/12/2004		EXAMI	NER	
B. Noel Kivlin			KNAPP, JUSTIN R		
Conley, Rose, & Tayon, P.C. P.O. Box 398			ARTIQUE	DADED MUMDED	
			ART UNIT	PAPER NUMBER	
Austin, TX 78767			2182	~	
			DATE MAILED: 03/12/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		PPa					
	Application No.	Applicant(s)					
	09/978,379	ENNIS, STEPHEN C.					
Office Action Summary	Examiner	Art Unit					
	Justin Knapp	2182					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 15 Oc	<u>ctober 2001</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	☐ This action is FINAL . 2b) ☐ This action is non-final.						
,							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-18 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-18</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	relection requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on 15 October 2001 is/are:	The drawing(s) filed on <u>15 October 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	,	, ,					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)	_						
Notice of References Cited (PTO-892) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3.4</u>. 		atent Application (PTO-152)					

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DETAILED ACTION

Examiner's Notes

1. It is noted the following papers have been received: Rescind Letter as received 07/23/02; IDS as received 08/15/02; IDS as received 04/28/03.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 8, 10, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Melvin, et al (herein referred to as Melvin), US Pub No. 2003/0069920.
- 4. Referring to apparatus claims 1 and 10, Melvin teaches:

a first buffer circuit coupled to receive control commands from a first source, wherein said first buffer circuit includes a first plurality of buffers for storing selected control commands (see [0006] through [0011]);

a second buffer circuit coupled to receive control commands from a second source, wherein said second buffer circuit includes a second plurality of buffers for storing selected control commands (see [0006] through [0011]); and

an arbitration circuit coupled to said first buffer circuit and to said second buffer circuit, said arbitration circuit is configured to arbitrate between said control commands stored in said first

buffer circuit and said control commands stored in said second buffer circuit (see [0627] through [0635]);

wherein the outcome of selected arbitration cycles is dependent upon a number of times in which a control command from a given one of said buffers is blocked due to an unavailable destination (see [0635]).

5. Referring to claims 8 and 17, Melvin teaches wherein said unavailable destination is a destination buffer (the destination buffers are the memory blocks of the various tribes that are being accessed by the other tribes).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2, 3, 11, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melvin in view of Mihara et al (herein referred to as Mihara), USPN 4,998,027.
- 8. Referring to claims 2, 3, 11, and 12, Melvin does not explicitly teach wherein said arbitration circuit includes first and second arbitration units configured to arbitrate between the selected control commands stored within the first and second plurality of buffers. Mihara has taught arbitration circuitry for arbitrating contention between multiple request signals. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize

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Mihara's arbitration circuitry in the arbitration scheme of Melvin for the purposes of improving the prioritization of request signals.

- 9. Claims 9 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melvin.
- 10. Referring to claims 9 and 18, Melvin does not explicitly teach wherein said arbitration circuit is further configured to determine whether storage space is available within said destination buffer. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to determine whether storage space is available within the determination buffer. One would have been motivated to do so to prevent problems such as buffer overflow from occurring.

Allowable Subject Matter

11. Claims 4-7 and 13-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is reminded in amending in response to a rejection of claims, the patentable novelty must be clearly shown in view of the state of the art disclosed by the references cited and the objections made. Applicant must also show how the amendments avoid such references and objections.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Knapp whose telephone number is (703) 308-6132. The examiner can normally be reached on Mon - Fri 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on (703) 308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Justin Knapp Examiner Art Unit 2182

March 5, 2004

SUPERVISORY PATENT EXAMINER